To: Iyer, Shoba@OEHHA[Shoba.Iyer@oehha.ca.gov]

Cc: Linnenbrink, Monica[Linnenbrink.Monica@epa.gov]; Martin, Matthew[Matthew.Martin@pfizer.com]; Pham,

LyLy[Pham.LyLy@epa.gov] **From:** Judson, Richard

**Sent:** Tue 8/15/2017 9:13:11 PM

Subject: RE: Tanguay lab data on dashboard- Activity Score

Hi Shoba – sorry for not getting back to you – we've had one of our periodic avalanches of emails demanding attention, and yours got buried.

I'm setting out here what I think the process was, but ccing a couple of others who can maybe correct me.

The original data consisted of multiple wells per chemical / concentration pair, with one fish per well. The response for each chemical / concentration was the fraction of fish effected for each endpoint.

There were no tcpl methods assigned at levels 2 and 3 (data was not transformed or otherwise scaled). At level 5, 5\*Bmad was used as the hit-calling cutoff.

Some summation of the raw data was used to come up with the overall developmental toxicity endpoint, equivalent to what the Padilla lab used – I do not know the details of this.

Hopefully this is the type of information you're looking for

Richard

Richard Judson, Ph.D.

U.S. EPA

Office of Research and Development

**National Center for Computational Toxicology** 

Research Triangle Park NC

judson.richard@epa.gov

919-541-3085 (office)

Personal Matters / Ex. 6 | Cell)

From: Iyer, Shoba@OEHHA [mailto:Shoba.Iyer@oehha.ca.gov]

Sent: Monday, August 14, 2017 6:53 PM

**To:** Judson, Richard < Judson. Richard@epa.gov>

**Cc:** Linnenbrink, Monica <Linnenbrink.Monica@epa.gov> **Subject:** FW: Tanguay lab data on dashboard- Activity Score

Hi again Richard,

Just re-sending my earlier email request for an explanation of how the Tanguay lab Activity Score data displayed on the ToxCast dashboard were generated.

Thanks much,

Shoba

From: Iyer, Shoba@OEHHA

Sent: Wednesday, August 02, 2017 1:30 PM

To: 'Judson.Richard@epa.gov' < <u>Judson.Richard@epa.gov</u>>
Cc: Hao, Cordelia@OEHHA < <u>Cordelia.Hao@oehha.ca.gov</u>>
Subject: Tanguay lab data on dashboard- Activity Score

Hi Richard,

Hope you are doing well.

Monica referred me to you after I emailed her about getting some additional information on the Tanguay lab zebrafish data on the

ToxCast Dashboard. Our student intern, Cordelia (CC-ed here), is working on a project using the zebrafish data, and we were able to get many of our questions addressed during a phone call this morning with Lisa Truong. From our conversation with Lisa, we learned that the Activity Score data were generated by the ToxCast team for the purpose of having a higher level/overall toxicity endpoint included. She mentioned that the Activity Scores were generated using percent activity for the all of the specific zebrafish endpoints. Would you be able to send us a more detailed description of how the Activity Scores were calculated for the Tanguay lab data?

Thanks much, Shoba

PS. We also have a call set up with Stephanie Padilla later this month to discuss the specifics of the NHEERL zebrafish data. We'll reach out to you if we have any Dashboard-specific questions that don't get addressed during our call with her.

Please note: OEHHA is subject to the California Public Records Act. E-mail communications with OEHHA staff are not confidential and may be produced to members of the public upon request.

Shoba S. Iyer, PhD Staff Toxicologist Safer Alternatives Assessment and Biomonitoring Section Office of Environmental Health Hazard Assessment 1515 Clay St, 16th Floor Oakland, CA 94612 (510) 622-3168